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Authors: Parisa Mohammad Rahimi, Majid Zanjirdar, Mojgan Safa, Hossein Jahangirnia

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* Corresponding author. Tel.: 09181621711 E-mail address: zanjirdar08@gmail.com fax: +0-000-000-0000.

Research Paper

Meta-analysis of auditor characteristics and profit quality(Considering auditor characteristics indicators)

Parisa Mohammad Rahimi^a, MajidZanjirdar^{*b}, MojganSafa^c, HosseinJahangirnia^d, ^a PhD Student in Accounting, Qom Branch, Islamic Azad University, Qom, Iran ^bAssociate Professor, Department of Financial Management, Arak Branch, Islamic Azad University, Arak, Iran ^c Assistant Professor, Department of Accounting, Qom Branch, Islamic Azad University, Qom, Iran ^dAssistant Professor, Department of Accounting, Qom Branch, Islamic Azad University, Qom, Iran

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Abstract

The purpose of this study is to perform a meta-analysis of the relationship between auditor characteristics and profit quality. In order to integrate the results of different researches and identify the factors that modulate the relations between the auditor's characteristics and profit quality, in this research we will use meta-analysis methodology which is one of the quantitative statistical methods. In order to implement the during 2005-2020, the website of domestic scientific research journals (articles published during the years 2005-2020) were identified and collected as a statistical population of the research and collected, and by systematic removal method, finally 50 studies have analyzed, the results of the studies conducted in the mentioned period on this relationship, indicate that most of these studies are heterogeneous. In order to identify the cause of this heterogeneity, by dividing the researches based on different criteria for measuring auditor characteristics and calculating chisquare statistics, the results show that different criteria of auditor characteristics moderates the relationship between auditor characteristics and profit quality and there is a significant relationship between auditor independence and profit quality; there is a significant relationship between auditor rotation and profit quality, auditor size and profit quality, non-audit services provided by the auditor and profit quality, between fee paid to the auditor and profit quality and between auditor expertise in industry and profit quality.

1 Introduction

The role of auditing in validating corporate earnings information in the bankruptcy of large corporations has been significant. From the perspective of users, especially shareholders, auditing is useful when auditors review and evaluate the continuity of business, the absence of errors in the financial statements, misconduct, significant fraud, and illegal acts affecting the unit's operations and declare their agreement with the above [5]. Therefore, investors' influence on the value burden of auditor-approved information is important because increases of the predictive power of data

such as profits on which all aspects of the organization's performance are built on it can greatly divert investors' decisions from distortions and help them make the most appropriate predictions for the company's future and profits. On the other hand, managers have a lot of incentives to manipulate profits and reduce the quality of profits so that they can fulfill the predictions of financial analysts, and auditing can be one of the ways to prevent and reduce profit manipulation and reduce the quality of profits. Because it is believed that companies that provide audited financial statements have better quality information content and profits. This means that the higher the companies' profit manipulation, the lower their profit quality will be [13]and according to studies conducted so far, no research has examined meta-analysis of auditor characteristics and profit quality; therefore, this issue has a research gap. [30]showed that audit independence is associated with low accruals. Some researchers [27]showed a negative relationship between audit independence and earnings management. On the other hand, a positive relationship between audit independence and profit quality has been identified by other researchers. [21] show that there is a positive and significant relationship between auditor tenure and earnings management. [24] argues that non-audit services undermine the independence of auditors and thus reduce the quality of financial reporting and thus the quality of profits.

Based on the contradictory results of previous researches in this regard, this research will perform a meta-analysis of this part of the literature by identifying and collecting the relevant experimental studies in which through integrate the results and identify the causes of diversity in the results of studies make it possible to better understand the effect of auditor's characteristics on profit quality.

In the meantime, making the necessary decisions to achieve high quality profit content cannot be unrelated to audit fees. It seems that in companies whose level of profit quality is high, the costs paid for performing audit services in order to reveal various aspects that reflect the quality of profit will be higher. Audit has a supervisory role over the contract so that any breach of contract is brought to the attention of securities holders. Also, audit responsibility is not limited to overseeing the financial reporting process; rather, auditing serves as the ultimate gatekeeper of financial disclosure. A company with an accounting expert is more likely to drive management profits more accurately [15]

It is also less likely that large corporations will give in to a particular customer because they have multiple customers and offer a variety of services. However, a small company that earns a large portion of its revenue from a particular customer is more likely to surrender to that customer more easily. There are two different views on the tenure of auditors and the quality of financial reporting. The first view states that the shorter the auditor's tenure, the lower the quality of earnings. Proponents of auditor change believe that in the event of a forced rotation, auditors will be more able to withstand the pressures of client management and make more impartial judgments.

2 Theoretical Foundations and Research Background

According to profit quality theory, higher quality profit provides more information about different aspects of a company's financial performance. In addition, from the point of view of agency theory, independent auditing helps shareholders in controlling and supervising the management activities of the company. [15]stated that independent auditors are more effective in overseeing management and reducing the ability to report erroneously by minimizing management intervention [20] On the other hand, resource dependency theory states that the role of auditing in providing

resources in a professional and experienced way for companies to gain a competitive advantage, especially in the quality of financial reporting, is so effective. Based on agency theory and resource dependency theory, it can be thought that academic financial expertise reduces discretionary accruals and improves profit quality. Another feature that has been identified in previous researches as a factor affecting earnings quality is the size of the auditor. According to agency theory, internal and external oversight mechanisms are needed to reduce conflicts of interest between managers and stakeholders, and increasing the quality of oversight can also reduce information asymmetry [9]. Also, with the increase of the auditor permanence years in a company, his knowledge of that company increases and he knows what issues should be paid special attention to in order to audit it. However, there are other interpretations in this field. One interpretation is that auditors have less independence in the early years of auditing. There is a favorable view of the auditor's rotation in the face of evidences that an increase in the tenure of auditors leads to the reporting of low quality earnings [4]. [24] argues that, despite this legal restriction, evidences from academic researches show that non-audit services undermine the independence of auditors and thus reduce the quality of financial reporting and thus the quality of profits. Also, if the risk of manipulating the client's profit is greater, then auditors are required to reduce audit risk in general through additional testing methods or allocating additional resources to audit transactions, which is likely to lead to significant distortion of financial reporting. [11]In this regard, in the country, [19], in a study entitled Factors affecting the quality of profits of pharmaceutical companies found that there is a significant and direct relationship between profit quality and stock value and company size and there is a significant inverse relationship between the profit quality and gender diversity of members of the board.

Moradiin a study entitled The relationship between earnings quality and auditing fees with dividend policy showed that there is a direct and significant relationship between earnings quality and auditing fees with dividend policy and there is a significant inverse relationship between financial leverage and the ratio of accruals with dividend policy.[18]

Heydariin examining the effect of audit quality on earnings management show that there is a significant negative relationship between earnings quality and auditor's fee.[10]

Moradi Shahkooh, in examining the relationship between the characteristics of the audit committee and profit quality, show that the size of the audit committee and the financial expertise of the audit committee increase the quality of companies' profits.[17]

Piri, Parviz, in examining the relationship between tenure and change of auditor with the quality of earnings show that increasing the tenure of auditors increases the amount of accruals and as a result decreases the quality of earnings, while increasing the amount of auditor change reduces the amount of accruals and increases the quality of the profit.[23]

Goran, in examining the effect of audit quality on earnings quality showed that the size of the audit institute has a positive and significant effect on earnings quality. The auditor's tenure has a positive and significant effect on earnings quality.[7]

Francis, in examining the effect of auditor characteristics on profit quality and performance, show that the auditor's special characteristics limit the opportunistic and profiteering behavior of managers and thus will improve the quality of accounting profits and company performance and as a result, investors will have more trust in the capital market.[6]

Safarzadeh ,in his research entitled The role of auditor characteristics in improving earnings quality found that the index introduced to the auditor with the criteria of accrual quality, profit stability, profit smoothing and profit conservatism, has a significant inverse relationship and with the timeliness of profit has a direct and significant relationship, but does not have a significant relationship with predictable orofit and value indices.[26]

Mehrani et al, in examining the role of auditor characteristics in earnings quality, found that there is no significant relationship between auditor characteristics and the studied dimensions of earnings quality. In other words, the auditor's tenure has not had a significant effect on earnings quality.[16]

Torabi Nejad, in a study entitled The effect of tenure and auditor size on earnings quality shows that there is a positive and significant relationship between auditor tenure and profit quality. Also, the auditor's short tenure does not have a significant effect on profit quality and there is no significant relationship between auditor size and earnings quality.[29]

Abroad as well; Al-Badal et al., in a study entitled "Characteristics and quality of the audit committee" showed that some of the characteristics of the audit committee affect the quality of profits.[2]

Sai Lim and Kitisik, in a study entitled Audit Committee and Profit Quality show that the audit committee reduces profit management activities in companies. Profit management was usually found where the majority of the audit committee was composed of non-independent managers. The audit committee should be independent and have an impartial role in the development of the firm.[26]

Khalilov et alin a study examining accounting conservatism and corporate profitability, show that conditional (unconditional) conservatism is associated with lower (higher) sales profitability, and conservatism affects the profitability of purchases. [13]

Song et alshowed the relationship between the expertise of the audit committee members and the quality of earnings according to the meta-analysis method that the expertise of the audit committee has a positive relationship with profit quality and of course the accounting expertise shows a stronger relationship.[28]

El-Rasas and Camardin in a study entitled - Profit quality and auditing characteristics in the high market of centralized ownership showed that the independence of the audit committee and investment in internal audit has a positive relationship with profit quality and concentration of ownership is along with lower profit quality.[6]

Inailo and Manag found that the auditor's independence in providing non-audit services appeared to have a positive relationship with the abnormal working capital of accruals, which is an indicator of lower quality of profit.[12]

Suleiman and Raqab in a study entitled Audit Committee Effectiveness, Audit Quality and Profit Manipulation, showed that the independence of the audit committee; experience of members of the audit committee; audit committee meetings and audit quality have a negative and significant relationship with discretionary accruals and there was a significant relationship between the size of the audit committee and the level of discretionary accruals.[27]

Hamilton et alin a study entitled "Does the auditor's rotation affect profit quality?" found that the auditor change was associated with lower accruals (higher profit quality). This relationship is more intense for larger institutions.[9]

Barva in examining the criteria for measuring the quality of profits, showed that companies with relevance and high profit reliability compared to companies with low relevance and profit reliability, have higher profit response coefficient and explanatory power of profit/cost regression.[3]

3 Hypotheses

According to the proposed theoretical framework, the research hypothesis is presented as follows:

Main Hypothesis: Different criteria of auditor characteristics moderate the relationship between auditor characteristics and profit quality.

Sub-hypothesis 1- There is a significant relationship between auditor independence and profit quality.

Sub-hypothesis 2 - There is a significant relationship between auditor rotation (auditor tenure) and profit quality.

Sub-Hypothesis 3 - There is a significant relationship between auditor size and profit quality.

Sub-hypothesis 4- There is a significant relationship between the providing the auditor non-audit services and profit quality.

Sub-Hypothesis 5- There is a significant relationship between the fee paid to the auditor and the quality of the profit.

Sub-Hypothesis 6- There is a significant relationship between auditor expertise in the industry and profit quality.

4 Research methodology

Differences in applications, measurement tools, research methods and situations make it difficult to compare research. Therefore, applying contradictory researches results, publishing, interpreting, evaluating and recognizing their weaknesses requires a solution that is based on proper review and analysis of the research, using evidences and using a combined method. The meta-analysis provides an estimate that will not be affected by the size of the sample groups. For data collection, the library method has been used and the statistics used in the meta-analysis include Z, P-Value, Chi-square, F and t statistics, and these statistics should convert to a common scale that is called effect size. The purpose of using the effect size is to formulate various statistical findings of studies in a common numerical index and measurement to allow comparison and combination of statistical results of studies.

4-1 Statistical population and sample selection

The study population in this study are articles (from experimental studies done) related to the impact of auditor characteristics on earnings quality worldwide and from the website of foreign journals (articles published during 2005-2020) and the websites of domestic scientific research journals (articles published during 2005-2020) were identified and collected. Finally, out of a total of 277 collected studies, 50 studies were analyzed according to the applied limitations and using the systematic removal method.

4-2 research models and variables

4-2-1dependent variable

A- The dependent variable is the profit quality, the indicators of which are described below:

1- Quality of accruals: Measured by Decho and Dechio (2002) in model (1):

$$WC-ACC_{i,t} = a + f_1CF_{i,t-1} + f_2CF_{i,t} + f_3CF_{i,t+1} + e_{i,t}.$$
 (1)

CF: Operating cash distributed over the previous year's total assets for homogenization; WCACC: The sum of working accruals obtained in Model (2):

$$WCACC_{i,t} = (\Delta CA_{i,t} - \Delta CL_{i,t} - \Delta Cash_{i,t} + \Delta STD_{i,t})/A_{i,t-1}, \qquad (2)$$

CCA: aaaeees in rrr rnnt asstt;; CC:: hheeees in uurrttt dttt; CCssh: aahh hhassss; SSDD: changes in short-term received facilities; A: Total assets.

2- Profit stability: which is examined based on the regression model (3):

$$PTBI_{t+1} = \gamma_0 + \gamma_1 PTBI_t + \varepsilon_{t+1}$$
(3)

PTBIt + 1: Profit before tax deduction on total assets in period t +

PTBIt: Profit before tax deduction on total assets in period t

3- Profit predictability: Based on the Francis et alwork, using the square root of variance, the error estimated from the profit stability equation is measured as described in model (4) [26]

$$Pred_{j,t} = \sqrt{\sigma^2(\hat{v}_{j,t})} \tag{4}$$

On this scale, $\sigma^{r(\hat{v}_{j,t})}$ shows the variance of the remnants of the profit stability model, larger values for Pred indicate lower predictability of profit and, consequently, lower quality of profit.

4. Profit smoothing: is examined through model (5):

Profit smoothing: Standard deviation of operating profit to first total assets

Standard deviation of the operating cash flow ratio to total assets (5)

A lower ratio means more profit smoothing and therefore lower profit quality, which means a higher probability of profit smoothing.

5. Timeliness of profit: Using the Roanidek model as described in model (6):

$$EY = b_1 + b_2 * R_{i,t} + e_{i,t}$$
 (6)

In this model, b2 is the profit timeliness index.

6. Profit conservatism: Khan and Watts (2009) criteria are used as described in model (7):

$$NI_{g} = \beta_{1i} + \beta_{2i}D_{\mu} + (\mu_{1i} + \mu_{2i}MKV_{\mu} + \mu_{3i}MTB_{\mu} + \mu_{4i}LEV_{\mu})*R_{\mu} + (\lambda_{1i} + \lambda_{2i}MKV_{\mu} + \lambda_{5i}MTB_{\mu} + \lambda_{4i}LEV_{\mu})*D_{\mu}*R_{\mu} + (\delta_{1i}MKV_{\mu} + \delta_{2i}MTB_{\mu} + \delta_{3i}D_{\mu}MKV_{\mu} + \delta_{5i}D_{\mu}MTB_{\mu} + \delta_{1i}D_{\mu}LEV_{\mu}) + (\delta_{1i}MKV_{\mu} + \delta_{2i}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu}) + (\delta_{1i}MKV_{\mu} + \delta_{2i}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu}) + (\delta_{1i}MKV_{\mu} + \delta_{2i}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu}) + (\delta_{1i}MKV_{\mu} + \delta_{2i}MTB_{\mu} + \delta_{3i}D_{\mu}MTB_{\mu}) + (\delta_{1i}MKV_{\mu} + \delta_{2i}MTB_{\mu}) + (\delta$$

: NIjt : Net profit before contingent items to market value of equity j at the end of the year t.

: Rjt : Return on stocks of company j during fiscal year t.

Djt: virtual change. If R <0 is equal to 0, otherwise is equal to zero.

: MKVjt : Natural logarithm of market value of company equity j during fiscal year t.

MTBjt: ratio of market value to book value of company equity j at the end of fiscal year t; LEVjt: the debt-to-qqii tr r tt io of cmmnnj j tt tee ooo oo ficcal aaar t; ξjt: Reii uull or mllll rssiuue

Model (7) is estimated using annual cross-sectional regression and relation (8) is calculated using conditional conservatism:

$$C-SCORE = \lambda_{11} + \lambda_{21}MKVjt + \lambda_{31}MTB_{ji} + \lambda_{41}LEV_{ji}$$
(8)

4-2-2independent variable

The independent variable is the characteristics of the auditor, the indicators of which will be described:

1. Auditor independence: which the model (9) is used:

$$RI = 1 - (HC/I) * 100$$

RI: Auditor Independence Ratio, HC: Audit Fee in the Target Year, I: Total Audit Firm Revenue in the Target Year. In this model, it is assumed that the smaller the amount of the auditor's receipts from emll eeer loaati,,, thnn tee ddditor will ee more III e to rssitt tee mmplyyrr's oooortiii ttic behaviors.

- 2. Auditor rotation (tenure): The number of years that the auditor audits in a company.
- 3. The size of the auditing firm: Mofid Rahbar Auditing organization and auditing firm as a large firm with a high reputation and credit (grade 1) and in contrast to other auditing firms (auditing firms that are members of the Society of Certified Public Accountants), whose size compared to the auditing organization is smaller, considered as an institution with low reputation and credit (grade 2).
- 4. Provision of non-audit services: If the auditor has performed non-audit services is equal to one and otherwise is equal to zero.
- 5. Fee paid to the auditor: The natural logarithm of the audit fee has been used to calculate it. Audit fee information is extracted from the accompanying notes to the financial statements of the administrative, public and definite expenditure sector of other expenses.
- 6. Expertise of the auditor in the industry: Using two approaches, the market share and the portfolio share of the auditing firm is calculated which in this research, the market share approach is used. Auditors' market share is also calculated as described in Model (10):

$$\left(\frac{1}{(\text{IF})}\right) * \left(\frac{1}{2}\right) < \left(\frac{\text{EA}}{(\text{EAT})}\right)$$
 (10)

The total assets of all the owners of a particular auditing firm in a particular industry (EA) are divided by the total assets of the total owners in the industry (EAT). Institutions in this research are considered as industry experts whose market share (i.e. the phrase to the right of the equation) more than the phrase one on the number of companies in an industry (IF) multiplied by one divided by two (i.e. the expression to the left of the equation) (Hajiha and Sobhani).

5Analysis of research data

In the present study, articles published in domestic and foreign journals have been used and in the present study, an attempt has been made to observe all four mentioned steps.

A- Information coding: In the following, in the form of Tables (1) and (2), we will examine the research variables in the collected studies separately:

Table (1) List of domestic articles used for meta-analysis

Statistic value	Statistic type	result	Independent variable	Dependent variable	sample	Research country	Publish year	researcher	row
-۱.٤٤ and ۱.٠٩		Lack of significant relationship	Auditor tenure	Quality of benefit (inclusive of):	YIV	Imom	2013	Mahmani at al	,
YV 7·	t	Lack of significant relationship	Auditor size	The value of propulsion And caution ((conservatism	110	Iran	2013	Mehrani et al.	١
0.98	Z	Positive and significant relationship	Auditor tenure	Profit quality (accruals)	۸۳	Iran	2016	Piri & Sedqiani	٢
Y.100	t	Positive and significant relationship	Auditor tenure duration	Profit	/ 4	A C (2013	Jahanshah &	٣
01.	ι	Lack of significant relationship	Auditor type (auditor size)	conservatism		Iran	2013	Lavasani	1
Y.08.V	t	Positive and significant relationship	Auditor tenure	Profit quality ((accruals	۱۲۸	Iran	2019	Khoramabadi et al.	٤
٤٩	t	Lack of significant effect	Auditor tenure	Profit conservatism	۸۸	Iran	2012	Khalilzadeh	٥
91٣	·	Lack of significant effect	Addition tenure	profit stability		nan	2012	vet al.	·
-1. • ٨٨	t	Lack of significant relationship	Auditor tenure	Profit conservatism	19	Iran	2014	Khajavi & Hosseininia	٦
-٦.٨٧	t	Negative and significant relationship	Audit fee	financial reporting quality Quality of . optional laccruals	119	Iran	2019	Khoshkar et al.	٧
189	t	Lack of significant relationship	Audit fee	financial reporting quality Quality of) optional (accruals	v.	Iran	2015	Rajabi et al.	٨
1.087807	t	Positive and significant relationship with profit quality	Audit fee	financial re- porting quality Quality of . optional (accruals	1.0	Iran	2019	Ramezani	٩
7/77,3))	Existence of a positive and meaningful relationship	Audit institute size		4				
£.VY17°	t	Existence of a positive and meaningful relationship	Audit expertise in industry	profit stability	۱۸٤	Iran	2016	Salehi et al.	١.
۱.۷۷۸۱		Lack of significant relationship	Auditor tenure						
0.1		Lack of significant relationship		Accruals quality					
-۲.۱٦٢	t	Negative and significant relationship	Auditor rotation	profit stability	717	Iran	2014	Safarzadeh	11
-٤.٣٩٠		Negative and significant		Profit smoothing					

		,	•	,			1	1	
		relationship							
		Negative and		Profit					
۸۶۲.۲-		significant		conservatism					
		relationship		Conscivatism					
		Positive and		Profit					
۳.٦٢٨		significant		timeliness					
		relationship		umenness					
		Lack of		D C.					
1.727		significant		Profit					
		relationship		Predictability					
		Lack of							
٤٢٠		significant		Accruals					
		relationship		quality					
		Lack of							
۰.۷۰٦		significant		profit stability					
		relationship		prom outonity					
		Lack of						X	
٠.١٧٨		significant		Profit					
*.17/		relationship	Audit institute	smoothing					
		Lack of	size						
٠.٦٢٠		significant	SIZE	Profit					
*. ***		relationship		conservatism					
		Lack of							
\ 7\/				Profit					
۱.٦٧٠		significant		timeliness					
		relationship							
140		Lack of		Profit					
1٤9		significant		Predictability					
		relationship		,		,			
		Negative and		Accruals	5.				
-7.290		significant	\	quality					
		relationship							
		Negative and							
-۲.۲۹۸		significant	- 1-1	profit stability					
		relationship							
		Lack of	1 1 1	Profit					
-1.٢٨٦		significant	Auditor	smoothing					
		relationship	expertise in	S.I.ooii.i.g					
		Lack of	industry	Profit					
٤٩١		significant	maasay	conservatism					
		relationship		Conscivatism	3/				
		Positive and		Profit timeli-					
٣.٢٧٣		significant		ness	1. 1				
		relationship		ness					
		Lack of	AP	Profit					
۱۲۷.۰		significant							
		relationship _		Predictability					
			Rotation	W.	/				
		Desiring and	(rotation /						
٠.٠٤٩	oiomi£ioomoo	Positive and	tenure) of the	Profit	١٢٧	Tuon	2018	Kashanipoor	۱۲
	significance	significant	partners of the	conservatism	111/4	Iran	2018	et al.	11
		relationship	auditing	40.71 110	10,1				
			institute	2/36/	50. 1	11			
		Negative and		Profit		7		Karami &	
-0.717	t	significant	Auditor tenure		٥٨	Iran	2010		١٣
		relationship	41.7	conservatism	1,00		<u> </u>	Bazr afshan	
		Negative and	Andietare	1000	16/				
-۲.9%		significant	Audit institute		JAJ				
		relationship	size	Optional	, 6	τ	2014	Marfoo &	
	7 7	Negative and	Auditor	accruals	1.4	Iran	2014	Amiri	١٤
-٤.٣٨		significant	expertise in				1		
		relationship	industry						
		Positive and	Ĭ						
٣.٥٥٦	t	significant	Profit	Audit institute	٦٣	Iran	2014	Malekian &	١٥
	-	relationship	conservatism	change				Abdi poor	
		Positive and	Audit						
7.70.		significant	committee						
		relationship	independence	Profit				Nasir zadeh et	
	t	Positive and		conservatism	۱۳۷	Iran	2017	al.	١٦
٤.٧٤٦		significant	Audit	conscivatism				ai.	
2,121		relationship	committee size						
		Positive and							
		significant	Auditor tenure	Profit	٤٩	Inon	2014	Vakili Fard &	۱۷
۳ V.			Auguor tenure		4٦	Iran	2014		1 V
٣.٠٧٨	t		riuditor tenure	conservatism				Maranjoori	
-1.0.8	t	relationship Lack of	Audit institute	conservatism accruals	342	Iran	2014	Maranjoori Vakili Fard et	١٨

		significant relationship	size		auditor's change observation			al.	
-7.209	t	Negative and significant relationship	Auditor tenure	accruals	٦٨	Iran	2013	Alavi Tabari & Bazrafshan	19
-1.207	t	Lack of significant relationship	Auditor expertise in industry	accruals	117	Iran	2009	Etemadi et al.	۲.
1٣٩	t	Lack of significant relationship	Auditor expertise in industry	accruals	117	Iran	2012	Aqayi & Nazemi	۲۱
-1.777	t	Lack of significant relationship	Audit institute size	Optional	VY	Iran	2011	Jabarzadeh et	77
۰.۳۸۸	·	Lack of significant relationship	Auditor tenure	accruals		nan	2011	al.	,,
-0.711	t	Negative and significant relationship	Audit fee	Profit stability	۸۲	Iran	0000	Khodadadi et al.	۲۳
-7.10	t	Negative and significant relationship	Auditor tenure	Profit Predictability	1626 year- company	Iran	777	Azizkhani & Safarvandi	71
٠.٠٤٠٩	p-value	Positive and significant relationship	Audit institute size	Profit conservatism	100	Iran	2013	Hassani	۲٥
1.٣٠٧		Lack of significant relationship	Auditor tenure	Profit stability			•		
٠١٨.٠-		Lack of significant relationship	Auditor tenure	Accruals quality	819-year-	, June	2017	Shams Al-	Y 7
1.790	t	Lack of significant relationship	Audit institute	Profit stability	company	Iran	2017	dini et al.	1 1
-1.9.		Negative and significant relationship	size	Accruals quality					
-٤.١٤٣	t	Negative and significant relationship	Auditor tenure	Accruals quality	1	Iran	2013	Taghizadeh Khanqah	۲۷
٣.٨٤	t	Positive and significant relationship	Auditor comment	Report timeliness	١	Iran	2014	Khodadadi et al.	۲۸

Table (2) List of foreign articles used for meta-analysis

Statisti c value	Statistic type	result	Independent variable	Dependent variable	sampl e	Researc h country	Publis h year	researcher	ro w
1	p-value	Positive and significant relationshi p	Audit institute size	Profit predictabilit y	EEIV	England	۲۰۰۹	Husseini	١
٢٩٤		Lack of significant relationshi p	Audit institute size	Combined variable with factor analysis of	بالعا	#			
-۲.771	t	Negative and significant relationshi	Auditor tenure	(quality of accruals, profit stability, profit	١١٦	Indone- sia	Y•1A	Suparsoto et al.	۲
1.07		Lack of significant relationshi p	Auditor expertise in industry	predictabilit y and auditor expertise in (the industry					
9.71.	t	Positive and significant relationshi p	Audit rotation	discretionary accruals	۱۸٦	Brazil	۲۰۱۸	Silvester et al.	٣

۲۸۲.۰	t	Lack of significant relationshi	Non-audit services	discretionary	7 470	Australi	7.1.	Rasmin	٤
981	ι	Lack of significant relationshi p	Auditor expertise	accruals		a	1.1.	Kasiiiii	,
-۲.9V		Negative and significant relationshi p	Auditor tenure						
-۲.0٦	t	Negative and significant relationshi p	Audit institute size	discretionary	۷۲	Jordan	Y - 1V	Al-Zui	0
- \. AV		Lack of significant relationshi	Auditor expertise in industry	accruals			72	5	
-٤.٩٨		Negative and significant relationshi p	Auditor independenc e	7		V			
	p-value	Negative and significant relationshi p	Audit institute size	discretionary accruals	£VY۳	Portugal	7.11	Ata Paula	٦
-٣.١٦٤		Negative and significant relationshi p	Audit institute size		SOF				
٠٠.٨٣٠	t	Lack of relationshi p Lack of	Auditor fee Industry	Profit conservatism	۳۹	Oman	7.17	Hamdan et al.	V
-1.9.7		relationshi	expertise	Υ					
0.772		Positive and significant relationshi	Auditor independenc e	Profit	كاوعلوم	Bahrain, Kuwait, Oman, Qatar, Saudi			
٧.٤٨.		Positive and significant relationshi p	Audit institute size	conservatism	09	Arabia and the United Arab Emirates	۲.۲.	Hamdan	٨
-۲.۳۰	t	Negative and significant relationshi p	Auditor ten- ure	accruals	۷۳۹	China	7.17	Leong et al.	٩
	p-value	Positive and significant relationshi p	Auditor rotation	Profit conservatism	۱۱٦٤٣	U.S.A	7.11	Kramer et al.	١.
٠٣٩	t	Positive and	Auditor independenc	Accruals and timeliness	۲.۷	U.S.A	77	Day et al.	11

	ı			ı		1	1		
		significant relationshi p	e (non-audit services)						
9٧٤		Lack of significant relationshi p	Auditor independenc e	P 2					
-7.111	t	Negative and significant relationshi p	Audit institute size	discretionary accruals	٣١	Bahrain	7.17	Jahmani	١٢
٠.٩٤٨	1	Lack of significant relationshi p	Auditor independenc e	discretionary	٣٤٢	Nimain	7.18	Ç	15
٢٣٥	p-value	Lack of significant relationshi p	Auditor tenure	accruals	121	Nigeria	1.12	Aquistin	11
-0.9	t	Negative and significant relationshi p	Audit tenure	discretionary accruals	٣٢٧٧٧	China	۲ ۹	Goul et al.	١٤
-۰.۸۱٥	t	Lack of significant relationshi p	Audit institute size	discretionary accruals	1۲	Malay- sia	7.10	Tour et al.	10
-۲.۳۸	t	Negative and significant relationshi p	Auditor independenc e	discretionary accruals	0.A	Malaysi a	7.10	Al-Rassas	١٦
٣.٤٩	t	Positive and significant relationshi p	Auditor independenc e (Non-audit services)	Unusual accruals	۱٤٧	Italy	7.18	Iyanlu	١٧
٠.٤٠٠		Lack of significant relationshi p	Audit institute size	discretionary	1	Malaysi			
-٢.٠٩٤	t	Negative and significant relationshi p	Auditor independenc e	accruals	٥٤٨	a	Y V	Tourman	١٨
۸۰۹۰.۰	p-value	Lack of significant relationshi	Audit institute size	discretionary	100	Malaysi	7.17	Chandrasgra	19
VVA		Lack of significant relationshi p	Auditor independenc e	accruals	4	a		m et al.	
١.٣٨	t	Lack of significant relationshi p	Audit institute size	Profit smoothing	۳٤٧	Africa	7.17	Peterson	۲.
-٤.١٠	t	Negative and significant relationshi p	Audit institute size	smoothing	۷۳۰۸	India	7.10	Hog et al.	۲۱
٠٧	Significanc e level	Lack of significant relationshi	Non-audit services	Profit management	٣٠٧٤	U.S.A	77	Frankel et al.	77

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5-1statistical description of variables:

The average effect size calculated for different studies in this study is 0.166, which is considered as a relatively average effect size; also, to investigate the publication bias, a funnel sample was drawn by the comprehensive meta-analysis software; in this study, it can be said that the publication bias has been minimized, so the statistical results are significant and reliable.

5-2 Results of research findings

The results of performing meta-analysis on the whole statistical sample, including internal and external studies, are reflected in separate tables. In the meta-analysis approach to test the research hypotheses, first the effect size heterogeneity test is justified in order to determine the type of metaanalysis model used to test the considered hypothesis. If the data is homogeneous, the fixed effects pattern is used, and if it is heterogeneous, the random effects pattern is used, the results of which are presented in Table (3):

ble (3) Effec	t size hete	erogenei	ty test		
	Effect siz	e heterogen	eity test		
Test result	I2 value Signific ance level stati		Q statistic	relationship between independent and dependent variables	hypothesis
Random ef- fects	80.58	0.000	41.19	Auditor independence and profit quality	Sub. 1
Random ef- fects	89.01	0.000	191.08	Auditor rotation (auditor tenure) and profit quality	Sub. 2
Random ef- fects	82.26	0.000	95.83	Auditor size and profit quality	Sub. 3
Random ef- fects	79.19	0.008	9.61	Provide non-audit services by the auditor and profit quality	Sub. 4
Random ef- fects	82.26	0.000	22.55	fee paid to the auditor and profit quality	Sub. 5
Random ef- fects	78.53	0.000	27.95	Auditor expertise in industry and profit quality	Sub. 6

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In Table (3), the Q statistic value for all variables is larger than the value of the table and the significance level of Q test is less than the significance level of 0.05. However, since this index is sensitive to increasing the number of effect size, and with increasing the number of effect sizes, the power of this test to reject homogeneity increases, so I square is another index that is used for this purpose; a I2 value for the considered variables is greater than 75%, indicating that the effect size heterogeneity is relatively high; Therefore, hypothesis zero is rejected and hypothesis one on the effect size heterogeneity of the mentioned variables is confirmed; therefore, due to the heterogeneity, a random effects model is used to estimate the effect size of these variables; considering that after reviewing the meta-analysis assumptions, it was concluded that the random effect model should be used to combine the results to report the effect size, so in Table (4), the effect size report of the studies performed in the random model is presented:

Table (4) research sub-hypotheses test based on fixed or random effects pattern

		J P				
result	significance	Z statistic	Effective size confidence interval	Average weight size of effect	Relationship between variables	hypothesis
confirm	•.•••	٣.٥٥	and \cdot . $ t TT)$ $(\cdot . \cdot 9V$	١٢٢.٠	Auditor independence and profit quality	1
confirm	•.•••	-۸.۳٥	-۰.۲٥٤ - ٠.١٦٠) and(۸۰۲.۰۰	Auditor rotation (auditor tenure) and profit quality	2
confirm	•.•••	٦.۱٢-	and- ٠.١١٨) (-٠.٢٢٥	177	Auditor size and profit quality	3
reject	۰.۲۱۳	1.78	(-0.551 and 0.226)	۰.۰۸۹	Providing non-audit services by the auditor and profit quality	4
confirm	٠٠٣	-۲.9٧	-0.123 and - 0.538)	-۰.۳٤٧	fee paid to the auditor and profit quality	5
confirm	٠.٠٠١	-٣.٣٩	(-0.099 and - 0.356)		Auditor expertise in industry and profit quality	6

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In the following, the results obtained from the use of meta-analysis models including point estimation (average based on sample size weighting) and interval estimation (confidence interval), effect size of studies along with test statistics and significance level in Table (5) are presented:

Table (5)Frequency distribution of effect size classes of variables

Frequency percentage	frequency	Amplitude of effect intensity change				
77	+	(Low effect intensity (less than 0.1 or greater than -0.1				
٤٨.٠	٤٢	Moderate effect intensity (between 0.1 to 0.3 or between -0.1 to - (0.3)				
.1.	0	(High impact intensity (greater than 0.3 or less than -0.3				
1	٥.	Sum.				

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In Table (5), out of 50 articles, 3 cases equal to 6% was in the lower class, 42 cases equal to 84% in the middle class and finally 5 cases equal to 10% in the upper class; therefore, the size of the effect obtained in the first interval (i.e. less than 0.1) is small and the study hypothesis is not strong enough. Also, when the value of r is in the second interval (i.e. between 0.1 and 0.3), the effect size is moderate, and finally, when the value of r is in the third interval, the intensity of the effect is evaluated as high. According to this classification, 84% of the size of the effects is

evaluated in the middle group; therefore, it can be said that based on the results of meta-analysis, the auditor's characteristics and profit quality had a moderate relationship.

5-3 Investigation of research hypotheses

To examine the main hypothesis of the research, we examine the related sub-hypotheses, the results of which are shown in Table (7):

5-3-1 the first sub-hypothesis of the research

The results of meta-analysis of the first sub-hypothesis of the research are presented in Tables (6) and (7):

Table (6) Effect size heterogeneity test

Test result	Efi	fect size heterogeneity	test	relationship between independent and	Hypothesis
Test fesuit	I2 value Significance level Q statistic		dependent variables	name	
Random effects	80.58	0.000	41.19	Auditor independence and profit quality	Sub.1

Table (7) effect size Average and confidence interval

result	Significance level	Z statistic	effect size confidence interval	Weight average of effect size	Relationship between variables	hypothesis
con- firm	0.000	3.55	(0.097 and 0.326)	0.214	Auditor independence and profit quality	Sub. 1

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In Table (6), 9 studies selected the auditor's independence as a characteristic of the auditor and examined its relationship with profit quality, the results of their meta-analysis is shown in Tables (4-4 and 5-4). The positive confidence interval reported from this number of studies (0.326 and 0.097) as well as the positive number, mean Z indicates a significant positive relationship between auditor independence and profit quality. Homogeneity test between studies with a value of 41.19 shows a lot of heterogeneity.

5-3-2the second sub-hypothesis of the research

The results of meta-analysis of the second sub-hypothesis of the research are presented in Tables (8) and (9):

Table (8) Effect size heterogeneity test

Test result	Effe	ect size heterogeneity	test	relationship between independent and	Hypothesis
	I2 value	Significance level	Q statistic	dependent variables	name
Random ef- fects	89.01	0.000	191.08	Auditor rotation (auditor tenure) and profit quality	Sub. 2

Table (9) Average effect size and confidence interval

(-)	wate (>) 11, and a chief size and community in							
Hypothesis result	Significance level	Z statistic	effect size confidence interval	Effect size weight average	relationship between variables	Hypothesis name		
confirm	./	-8.35	(-0.254 and - 0.160)	-0.208	Auditor rotation (auditor tenure) and profit quality	Sub. 2		

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Also, 22 cases selected the auditor rotation (auditor tenure) as a feature of the auditor and examined its relationship with profit quality which the results of their meta-analysis are presented in Tables (4-4 and 5-4). The positive confidence interval reported from this number of studies (-0.160 and -0.254) as well as the negative number, mean Z indicates a significant negative relationship between auditor rotation (auditor tenure) and profit quality. The homogeneity test between studies with a value of 191.08 shows a large heterogeneity.

5-3-3 Third sub-hypothesis of research

The results of meta-analysis of the third sub-hypothesis of the research are presented in Tables (10) and (11):

Table (10) Effect size heterogeneity test

			• • • • • • • • • • • • • • • • • • • •			
	Effec	t size heterogeneit	ty test	Relationship between independent and		
result	I2 value	Significance Q		dependent variables	hypothesis	
		level	statistic			
Random ef- fects	82.26	0.000	95.83	Auditor size and profit quality	Sub. 3	

Table (11) effect size Average and confidence interval

result	Significance level	Z statistic	effect size Average confidence interval	Effect size weight average	Relationship between variables	Hypothesis name
confirm	0.000	-6.12	(-0.118 and -0.225)	-0.172	Auditor size and profit quality	Sub. 3

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18 studies selected the size of the auditor as a feature of the auditor and examined its relationship with profit quality, the results of their meta-analysis are presented in Tables (4-4 and 5-4). The positive confidence interval reported from this number of studies (-0.118 and -0.225) as well as the negative number, mean Z indicates a significant negative relationship between auditor size and profit quality. Homogeneity test between studies with a value of 95.83 shows a lot of heterogeneity.

5-3-4 the fourth sub-hypothesis of the research

The results of meta-analysis of the fourth sub-hypothesis of the research are presented in Tables (12) and (13):

Table (12) Effect size heterogeneity test

_	Effec	t size heterogeneit	y test	relationship between independent and		
Test result	I2 value	Significance level	Q statistic	dependent variables	hypothesis	
Random ef- fects	79.19	0.008	9.61	Providing non-audit services by the auditor and profit quality	Sub.4	

Table (13) effect size Average and confidence interval

result	Significance level	Z statistic	effect size Average confidence interval	Effect size weight average	relationship between variables	Hypothesis name
reject	0.213	1.24	(-0.051 and 0.226)	0.089	Providing non-audit services by the auditor and profit quality	Sub. 4

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Three studies selected the non-audit services provided by the auditor as a characteristic of the auditor and examined its relationship with profit quality which the results of their meta-analysis are presented in the tables. The positive confidence interval reported from this number of studies (0.226 and -0.051) as well as the positive number, mean Z indicates a positive and non-significant relationship between non-audit services provided by the auditor and profit quality; therefore, this hypothesis is also rejected; the homogeneity test between studies with a value of 9.61 shows a large heterogeneity.

5-3-5the fifth sub-hypothesis of the research

The results of meta-analysis of the fifth sub-hypothesis of the research are presented in Tables (14) and (15):

Table (14) Effect size heterogeneity test

_	Effec	t size heterogeneit	y test	relationship between independent and		
Test result	I2 value	Significance level	Q statistic	dependent variables	hypothesis	
Random ef- fects	82.26	0.000	22.55	Fee paid to the auditor and profit quality	Sub.5	

Table (15) effect size Average and confidence interval

result	Significance level	Z statistic	effect size Average confidence interval	Effect size weight average	relationship between variables	Hypothesis name
confirm	0.003	-2.97	(-0.538 and -0.123)	-0.347	Fee paid to the auditor and profit quality	Sub. 5

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5 studies selected the fee paid the auditor as a characteristic of the auditor. The positive confidence interval reported from this number of studies (-0.123 and -0.538) as well as the negative number, mean Z indicates a negative and significant relationship between fee paid to the auditor and profit quality; the homogeneity test between studies with a value of 22.55 shows a relatively large heterogeneity.

5-3-6Sixth sub-hypothesis of research

The results of meta-analysis of the sixth sub-hypothesis of the research are presented in Tables (16) and (17):

Table (16) Effect size heterogeneity test

_	Effec	t size heterogeneit	y test	relationship between independent and	hypothesis
Test result	I2 value	Significance level	Q statistic	dependent variables	
Random ef- fects	78.53	0.000	27.95	Auditor expertise in industry and profit quality	Sub.6

Table (17) effect size Average and confidence interval

(,		una commacnee me			
result	Significance level	Z statistic	effect size Average confidence interval	Effect size weight average	relationship between variables	Hypothesis name
confirm	0.001	-3.39	(-0.356 and -0.099)	-0.232	Auditor expertise in in- dustry and profit qual- ity	Sub. 6

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Also 7 studies selected the auditor expertise in industry and profit quality as a characteristic of the auditor and examined its relationship with profit quality which the results of their meta-analysis are presented in the tables (4-4 and 5-4). The positive confidence interval reported from this number of studies (-0.099 and -0.356) as well as the negative number, mean Z indicates a negative and significant relationship between the auditor expertise in industry and profit quality; homogeneity test between studies with a value of 27.95 shows a lot of heterogeneity. In the following, in Tables (18) and (19), the research is grouped based on the criteria for calculating the characteristics of the auditor and the quality of profit:

Table (18) Research grouping based on criteria for calculating auditor characteristics

to Research grouping based on effectia for calculating addition	That acteristics
Related researches	Auditor characteristic
Nasirzadeh; Al-Zawi; Hamdan; Day; Jahmani; Augustine; Al-Rassas; Ianloo and	Auditor
Chandrasgram	independence
Mehrani, Piri; Jahanshad; Khorramabadi; Khalilizadeh; Khajavi, Safarzadeh, Kashanipour; Karami; Vakili, Alavi; Jabarzadeh; Azizkhani; Shams al-Dini; Taghi-	Auditor rotation
zadeh; Suparsono; Sylvester Al-Zawi; Leung; Kramer; Augustine and Goole	Additor rotation
Mehrani; Salehi; Safarzadeh; Maroof; Vakili; Jabbarzadeh; Shams al-Dini; Hussaini ; Suparsono, Al-Zawi;, Anna Paula; Hamdan; Hamdan, Jahmani, Noor; Norman); Chandrasgram and Petersen	Auditor size
Day and Ianloo and Huak	Non-audit services
Khoshkar; Rajabi; Ramezani; Khodadadi and Hamdan	Auditor fee
Safarzadeh, Maroof; Etemadi; Aghaei, Suparsono; Rasim and Al-Zawi	Expertise in industry

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Table (19) research grouping based on profit quality calculation criteria

Related researches	Profit quality criteria
Piri Khoramabadi, Khoshkar, Rajabi,Ramezani, Safarzadeh, Maroof, Vakili, Alavi, Etemadi, Aqayi, Jabarzadeh, Shams Al-dini, Taqi zadeh, Soparsoto, Sylvester, Rasmin, Al-Zawi, Atapaula (), Leong), Dey, Jahmani, Agastin),Goul, Tour, Al-Rassas, Iyanlu, Tourman, Chandrasgram	Accruals quality
Khalilizadeh; Salehi; Safarzadeh; Khodadadi; Shams al-Dini; Suparsono	Profit stability
Mehrani Safarzadeh Azizkhani Hosseini Vesoparsono	Profit predictability
Safarzadeh and Peterson and Khodadadi et al	Profit smoothing
Safarzadeh and Dey and Faramkal et al	Profit timeliness
Mehrani Jahanshad; Khalilizadeh Khajavi,Safarzadeh), Kashanipour; Karami; Nasirzadeh; Vakili Fard; Hamdan; Hamdan and Kramer	conservatism

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Regarding the main hypothesis of the research, the results of 50 studies on the relationship between auditor characteristics and profit quality indicate that these studies are heterogeneous. Therefore, by combining documented correlation statistics in this research, no specific conclusion can be reached about the existence and extent of such a relationship. Thus, in order to identify the cause of this heterogeneity, we can investigate this issue by dividing the researches based on different criteria of the auditor's characteristics and calculating the analysis of intergroup variance. Therefore, to test the main hypothesis of the research and examine whether this criterion of classification, i.e. different criteria for measuring the profit quality is a factor moderating the relationship between the two main variables of research (auditor characteristics and profit quality) or not; the statistical value obtained from the intragroup and intergroup homogeneity test is calculated and presented. The results of the homogeneity test of the main hypothesis subgroups are shown in Table (20):

Table (20) Results of the homogeneity test of the main hypothesis subgroups

Significano level	ce	F statistic value	sum of squares	index
0.254		1.35	77.44	intergroup
0.234		1.33	662.2	intragroup

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As can be seen in Table (20), the value of the intragroup homogeneity test is non-significant; therefore, the different criteria used in the research have been one of the factors of contradiction in the research results; therefore, the studies within the classes are homogeneous and the researcher has done well in identifying key variables (i.e. auditor independence, auditor rotation (auditor tenure), auditor size, providing non-audit services; auditor paid fees and auditor expertise in the industry) and the second main hypothesis of the research is confirmed.

6 Discussion and conclusion

The present study seeks to meta-analyze the characteristics of the auditor and the profit quality. Finally, the results of the main hypothesis of the research showed that different criteria of auditor characteristics moderate the relationship between auditor characteristics and profit quality and there is a significant relationship between auditor independence and profit quality; there is also a significant relationship between auditor rotation and profit quality, auditor size and profit quality, non-audit services provided by the auditor and profit quality, between fee paid to auditor and profit quality and between auditor expertise in industry and profit quality and the main research hypothesis also confirmed. Research evidence generally suggests that the factors that measure the characteristics of the auditor have been able to play an important role in changing the quality of companies' profits. In this regard, Safarzadeh (2014) and Moradi and Arab (2017), using the information of 73 companies listed on the Tehran Stock Exchange during 2011-2015 showed that the auditor's characteristics are effective in improving profit quality which is in line with the results of the present study. The results are in accordance with the research of Reguera et al. and Aqayi and Nazemi Araaaani woo eeeee e tttt teere is nn ieeerse rll tt inniii p ttt ween tee ddditr.'s eeeertiee in i-dustry and the management of discretionary accruals. In addition, Song et al. showed that the expertise of audit committee has a significant relationship with profit quality which is in line with the results of the present study.

According to the research hypotheses, it is suggested to the stock exchange organization to adopt rules and regulations to determine the real value of companies, transparency of information and better understanding of performance, which as much as possible during the many years use existence of high-quality auditors to audit financial statements. In addition, one of the necessary measures is to more emphasize and control of the stock exchange organization and the auditing organization as a reference for compiling accounting standards on the phenomenon of accounting information quality and also profit quality. Investors and creditors, as external users, are also suggested to pay attention to the profit quality phenomenon when using financial statements to decide to invest in corporate stocks or sell stocks; in addition, investors can benefit from the reliable results of meta-analytic researches to assess the inherent risk of accounting information when making securities trading decisions. This research provides an integrated view for the audiences while providing a clear view of the reasons for the contradictions around the different criteria of auditor characteristics. Researchers are suggested to investigate the following topics in their future researches:

From a more comprehensive perspective, examine the role of items such as the history of the audit firm, the competitive environment of the audit services market, the nature of the audit firm's partners and the quality rating of the audit firms along with other common characteristics used in terms of profit quality.

Due to the role of changes in the economic and business environment and the activities of companies in various industries that are not focused on in the present study, it is recommended to researchers to consider additional organizational conditions, competitive environment and economic status, and conduct coherent additional researches.

Meta-analysis of the impact of audit committee features on profit management.

Conducting additional researches focusing on the effectiveness of the performance and characteristics of the audit committee along with the characteristics of the auditor to increase profit quality

and conducting additional researches focusing on the effectiveness of internal controls and attention to control weaknesses along with the characteristics of the auditor to increase the profit quality.



Resources

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